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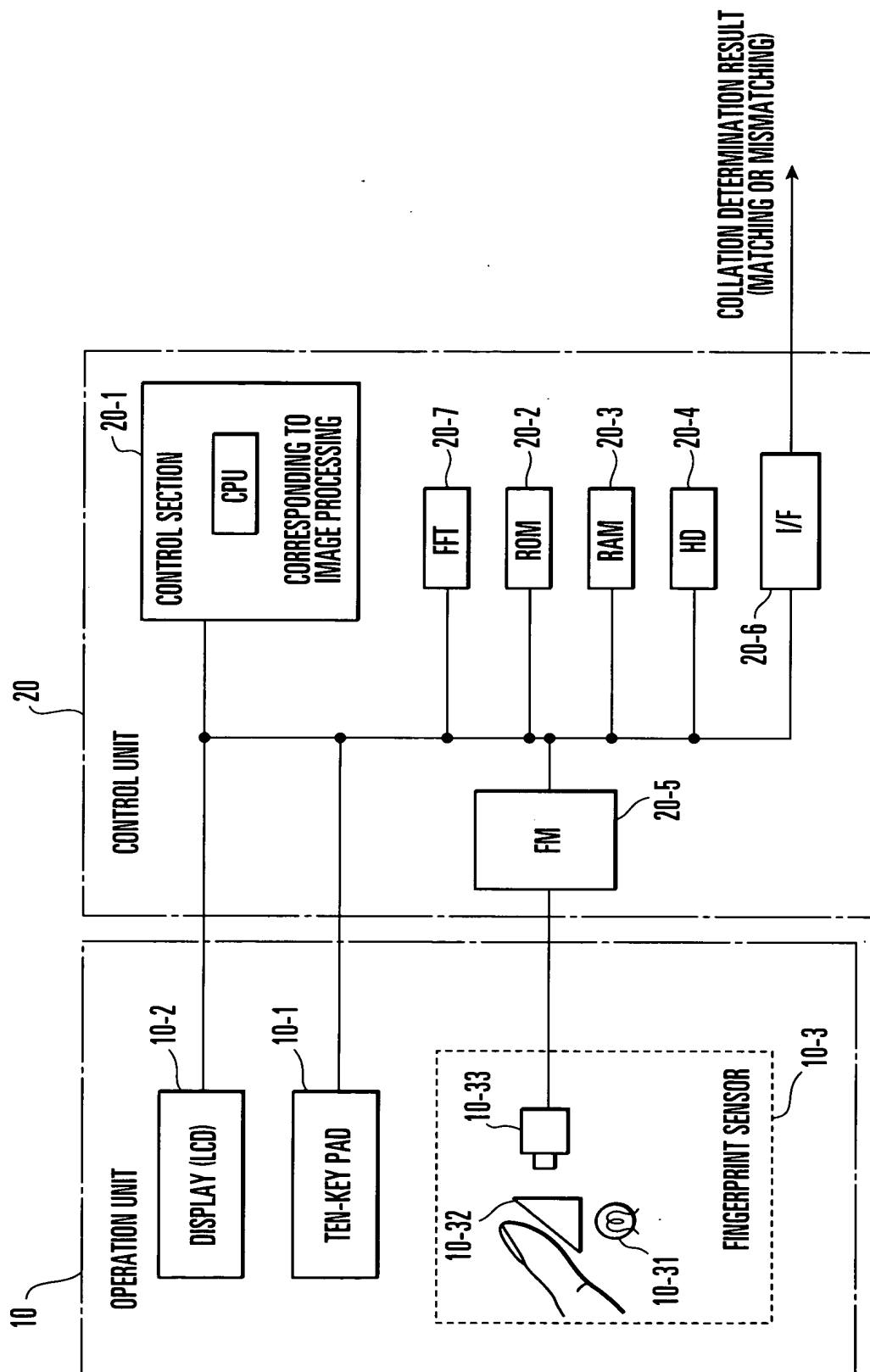


FIG. 1

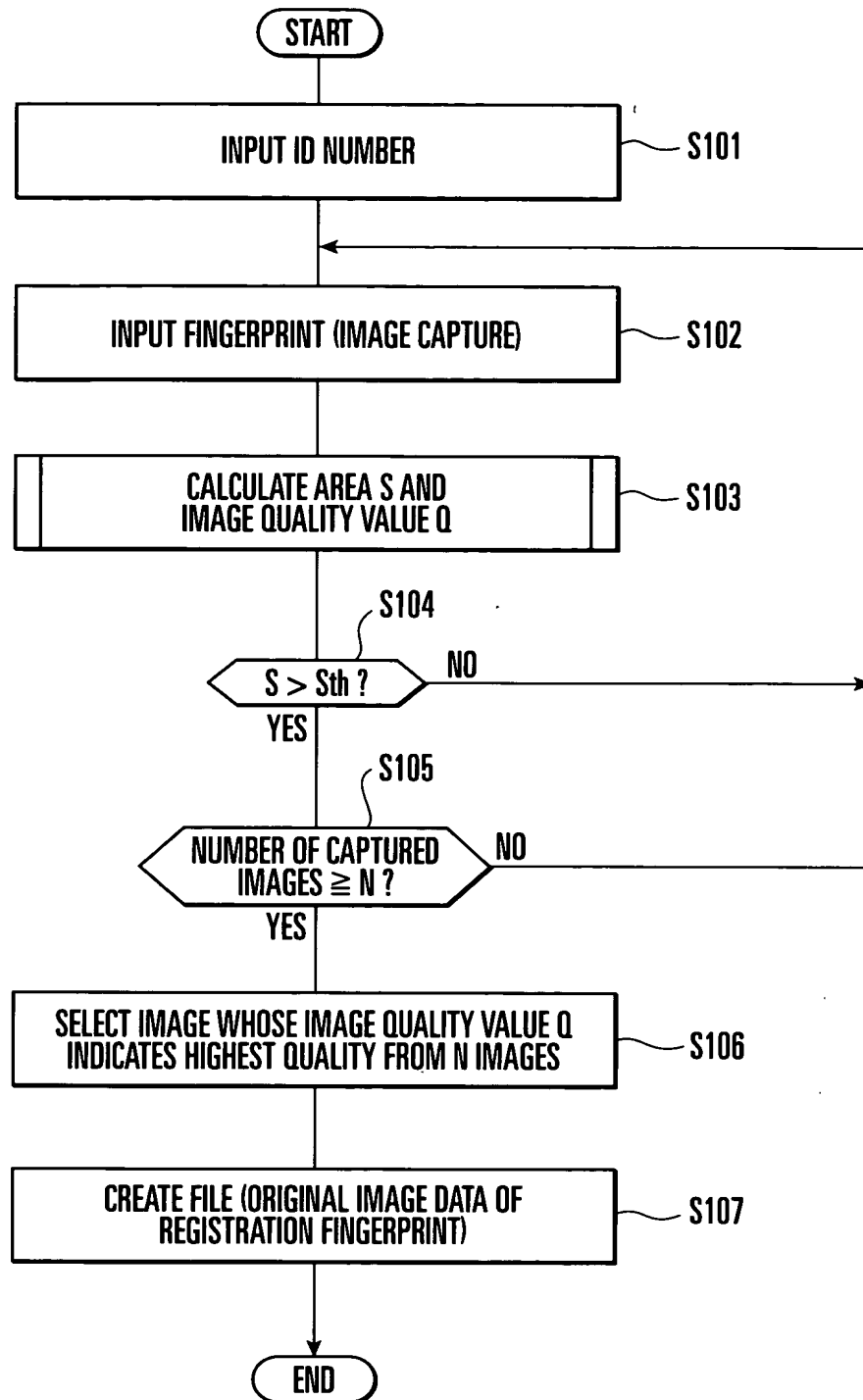


FIG. 2

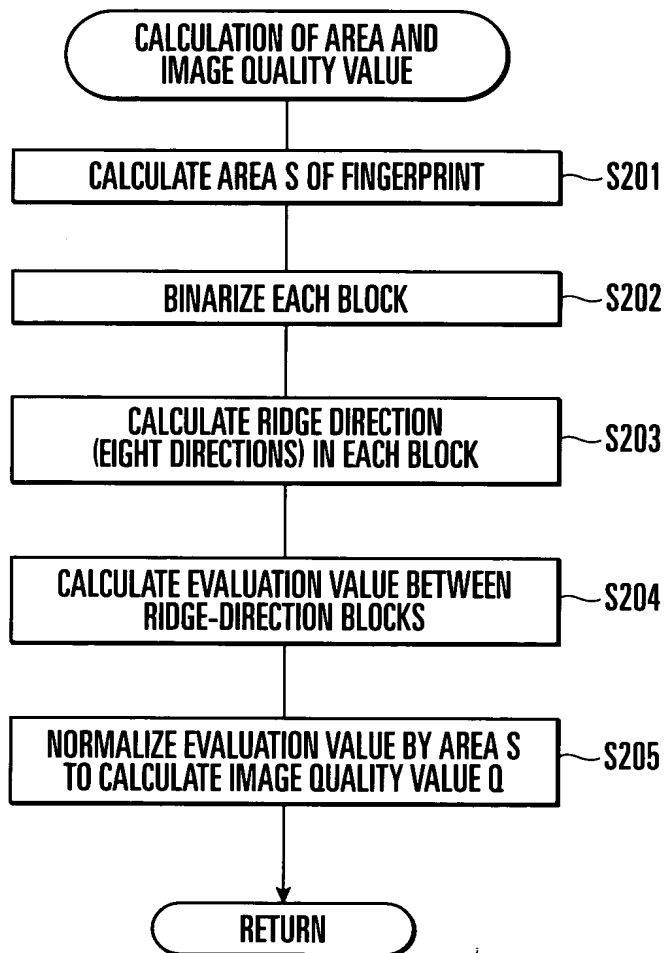


FIG. 3

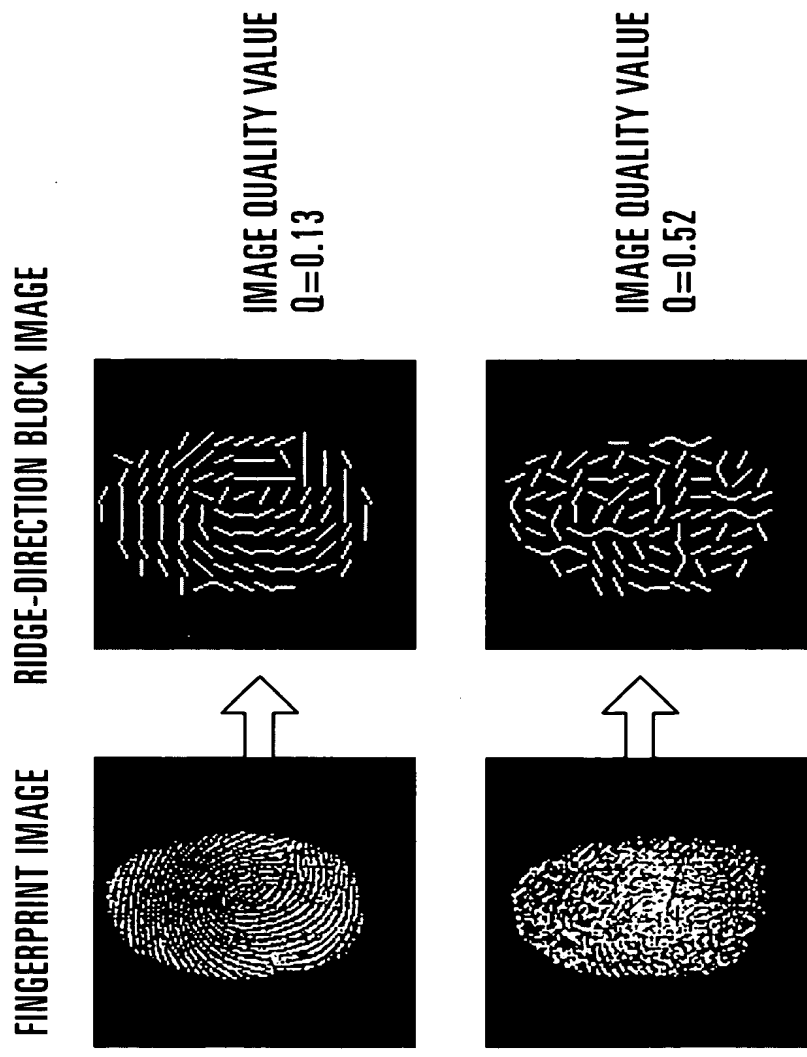


FIG. 4A

FIG. 4B

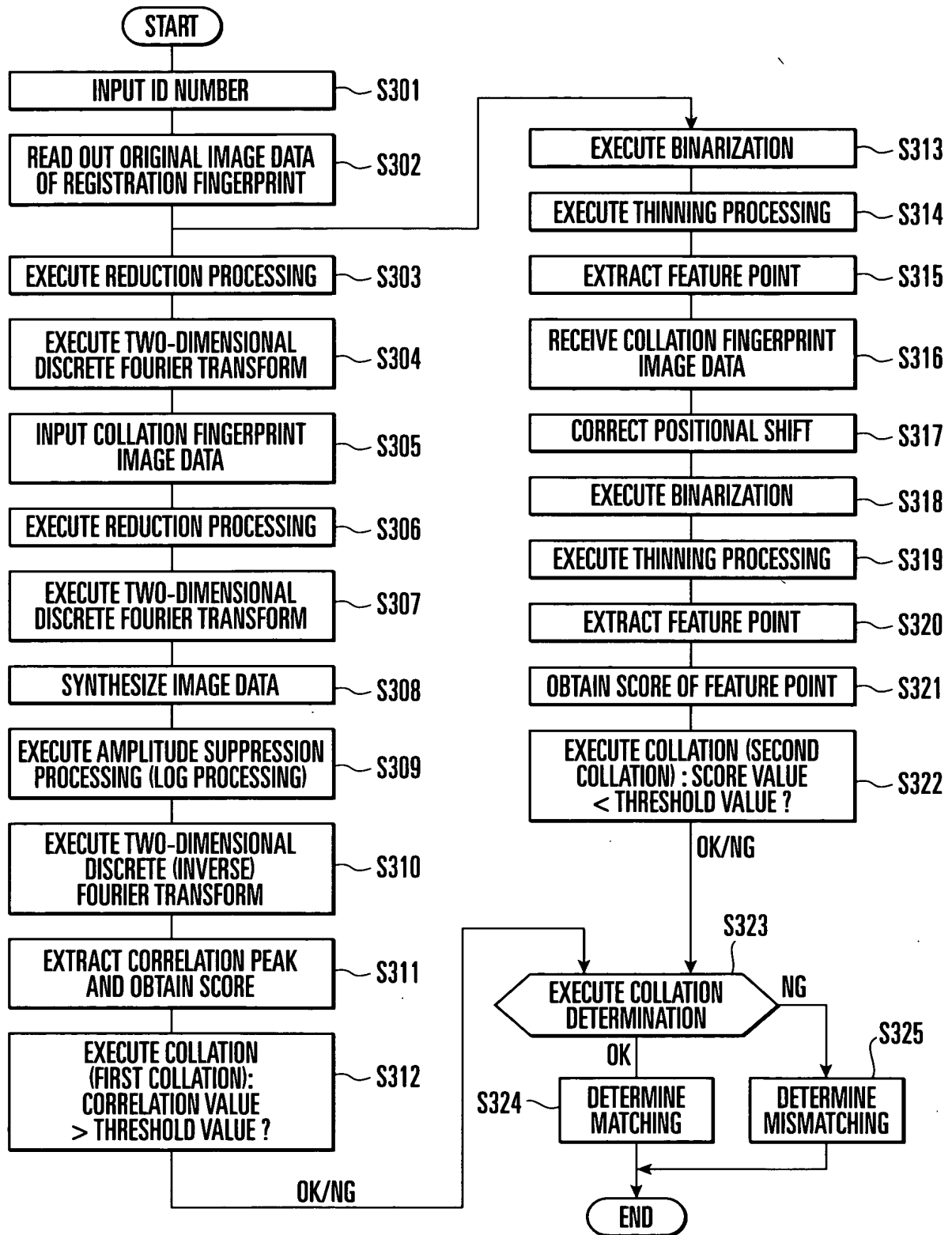


FIG. 5

FIG.6A



FIG.6B

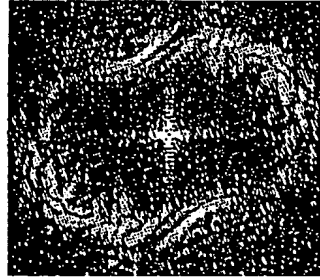


FIG.6C

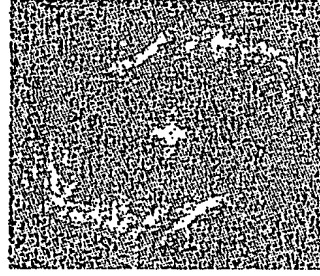


FIG.6D

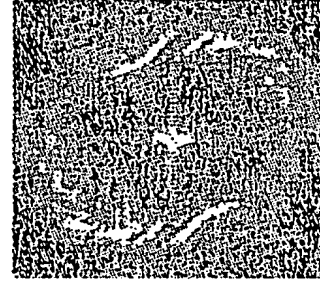


FIG.6E



FIG.6F

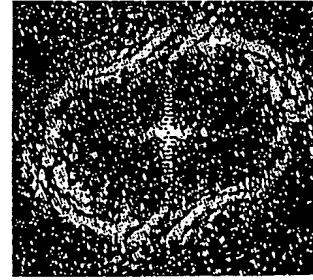
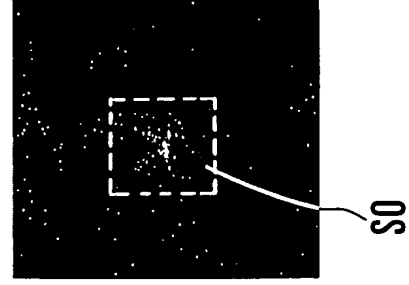


FIG.6G



FIG.6H



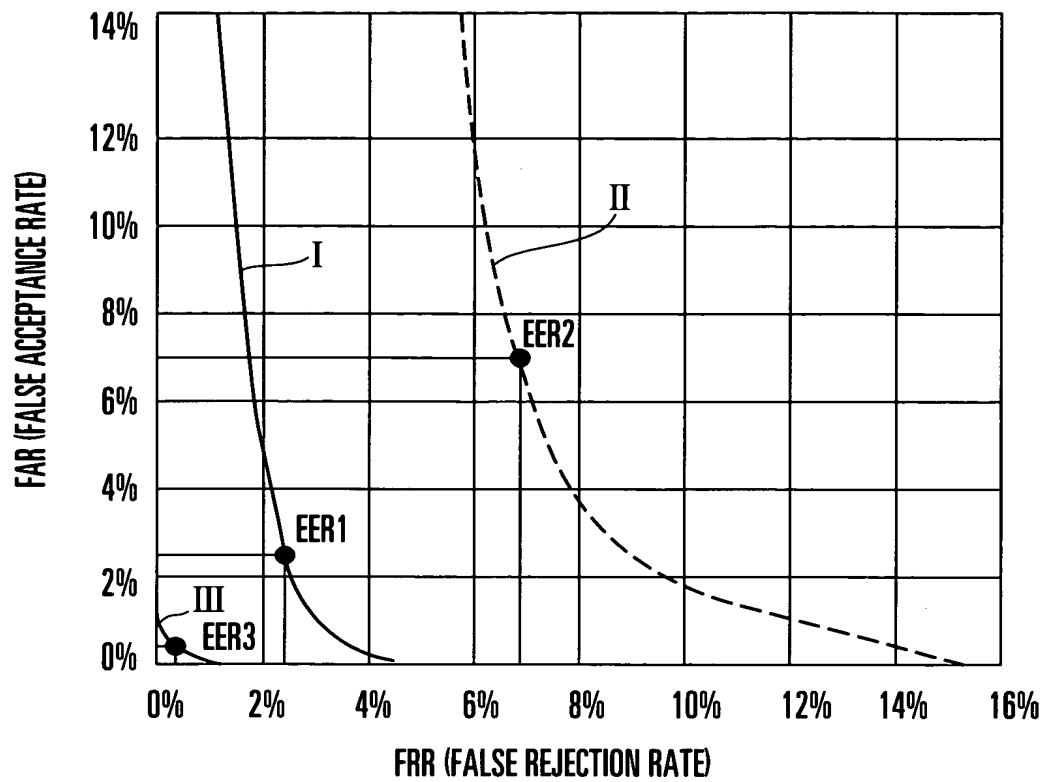


FIG. 7

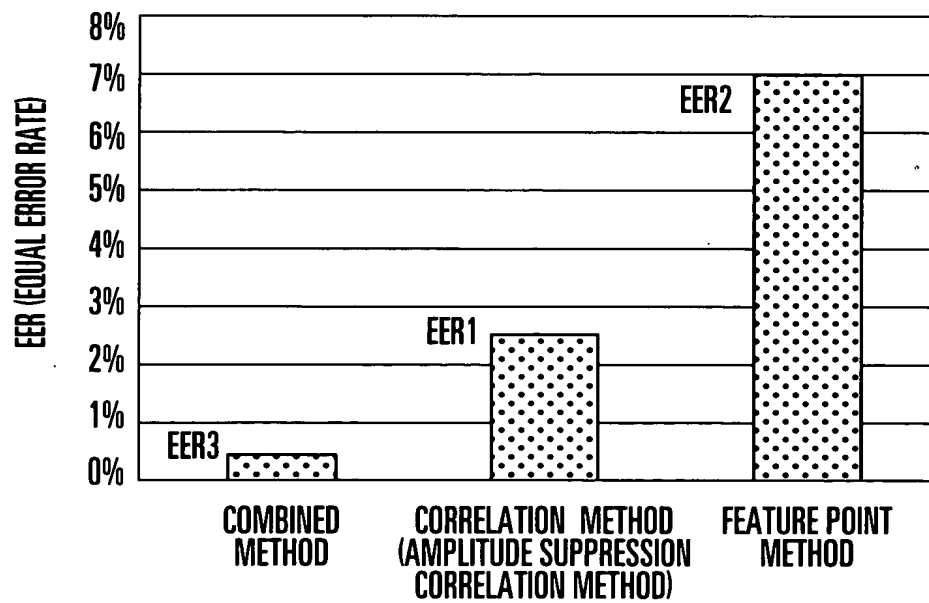


FIG. 8

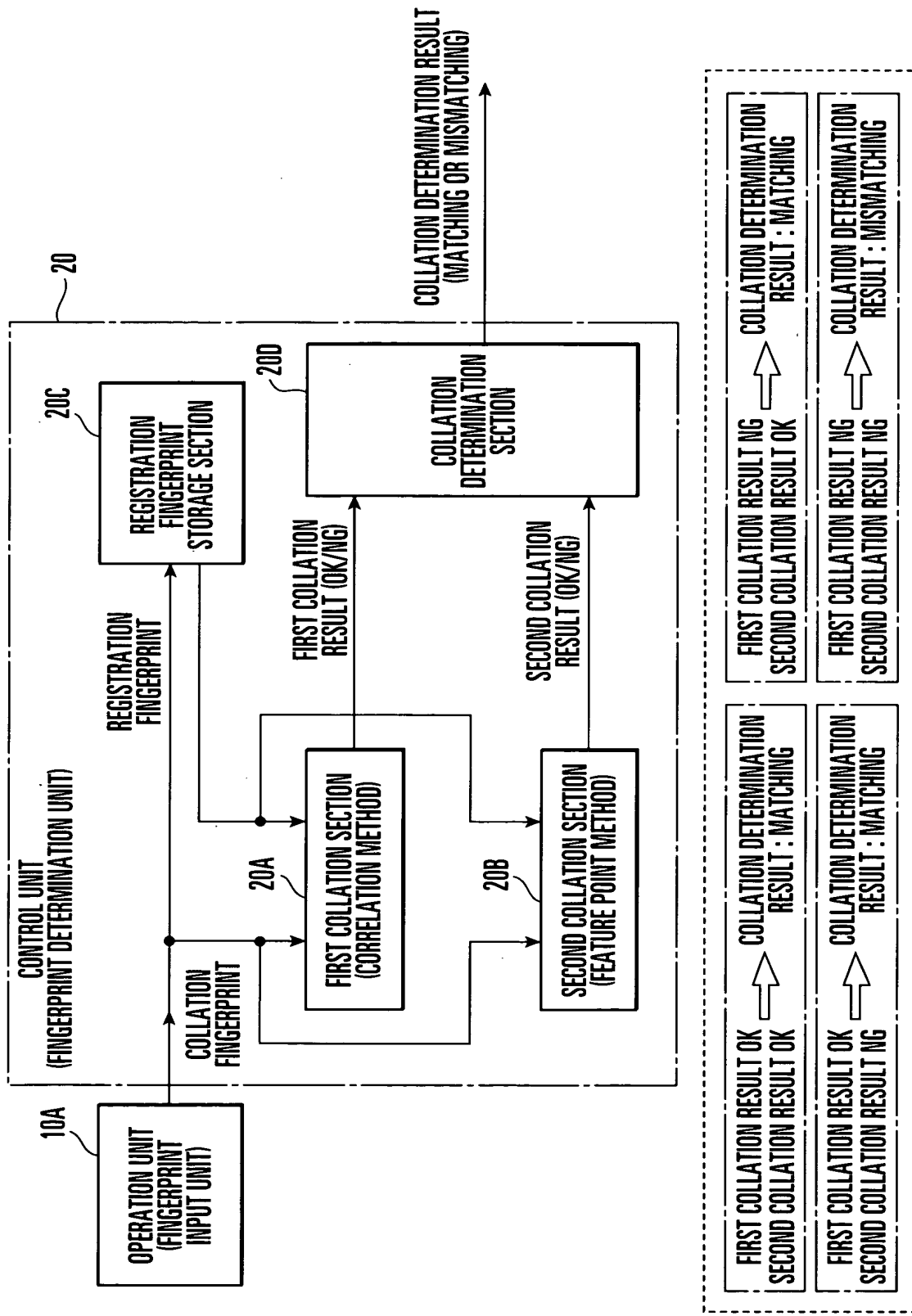


FIG. 9

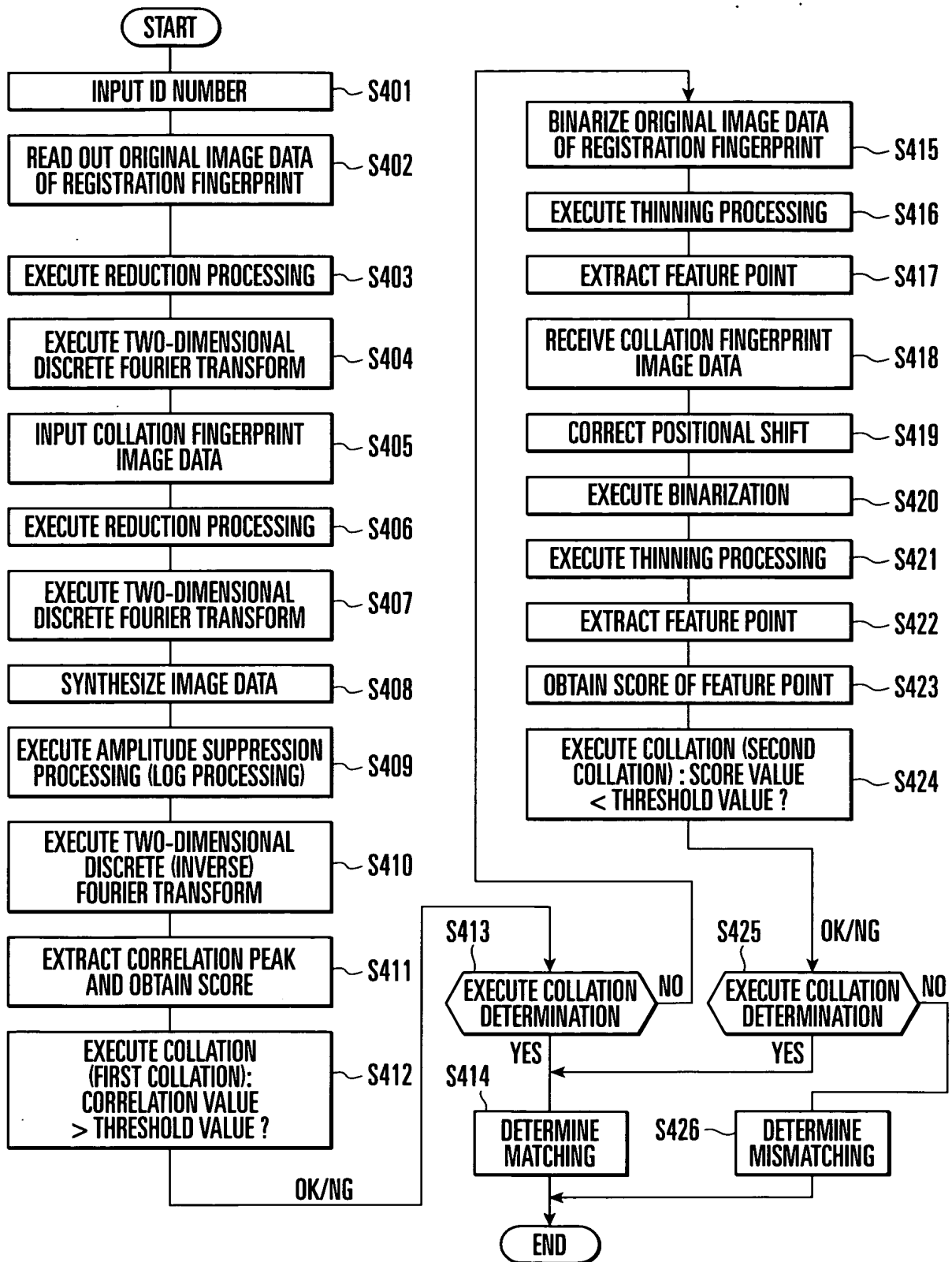
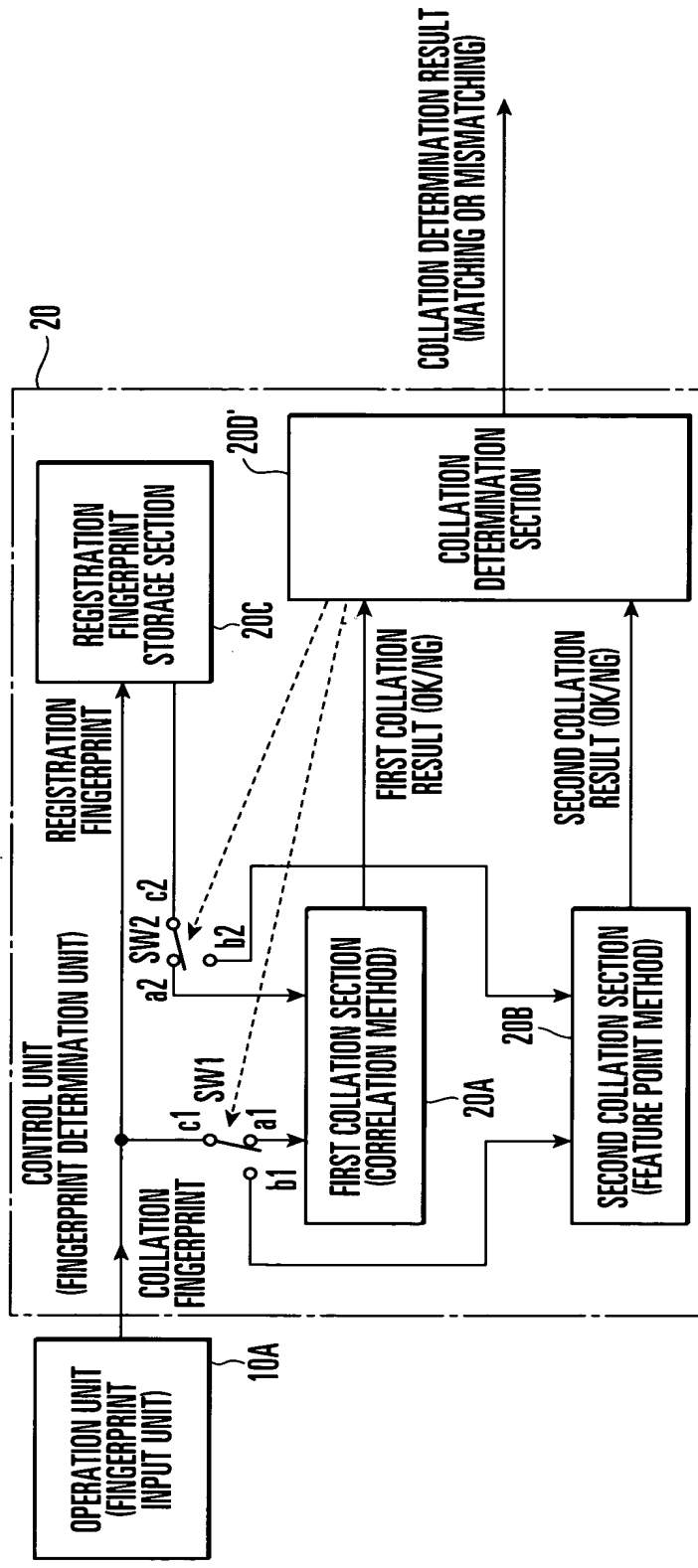


FIG. 10



FIRST COLLATION RESULT OK \Rightarrow COLLATION DETERMINATION RESULT : MATCHING

SWITCH BETWEEN SW1 AND SW2

FIRST COLLATION RESULT NG \Rightarrow SECOND COLLATION RESULT OK \Rightarrow COLLATION DETERMINATION RESULT : MATCHING

SWITCH BETWEEN SW1 AND SW2

FIRST COLLATION RESULT NG \Rightarrow SECOND COLLATION RESULT NG \Rightarrow COLLATION DETERMINATION RESULT : MISMATCHING

FIG. 11

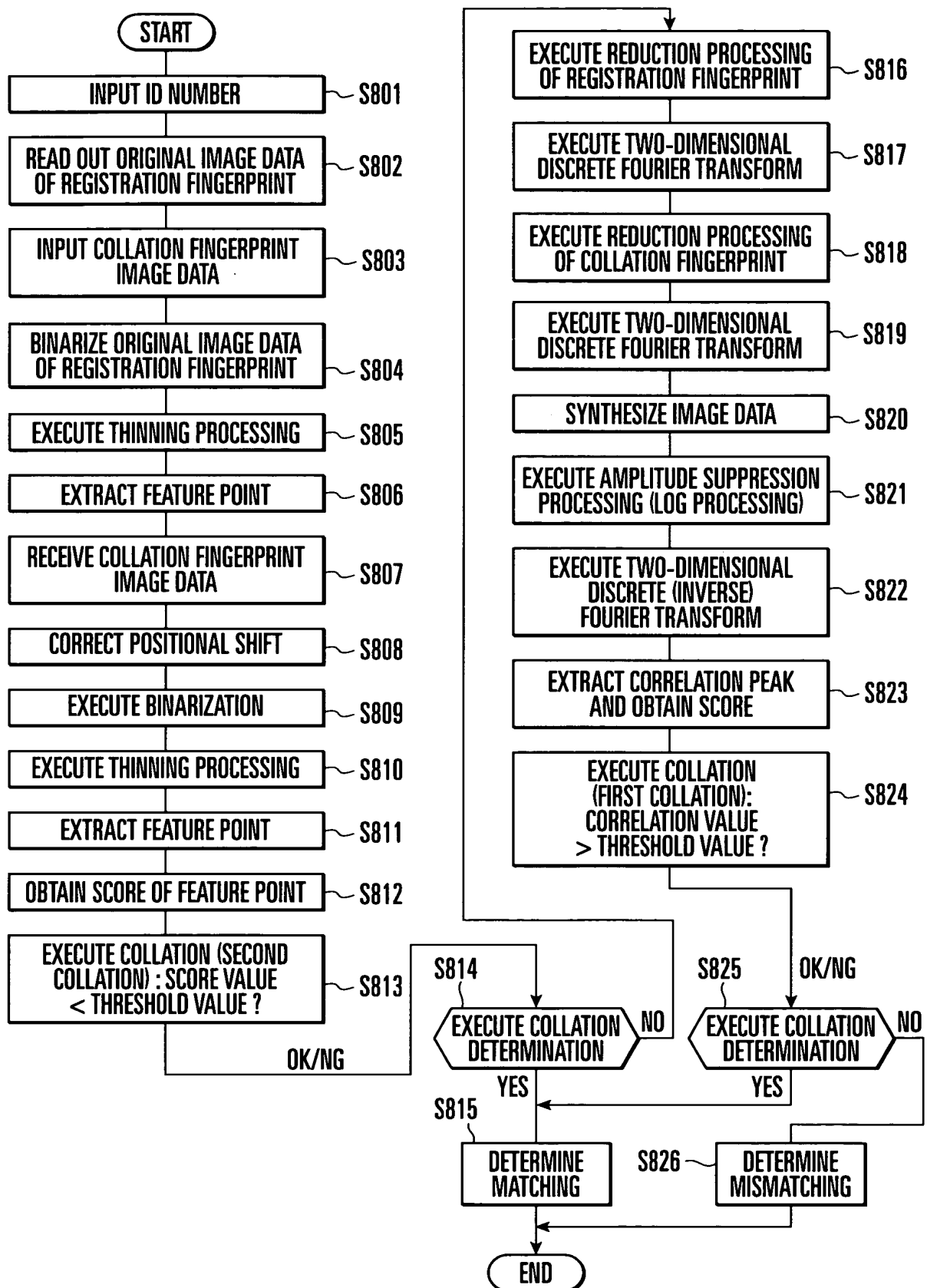


FIG. 12

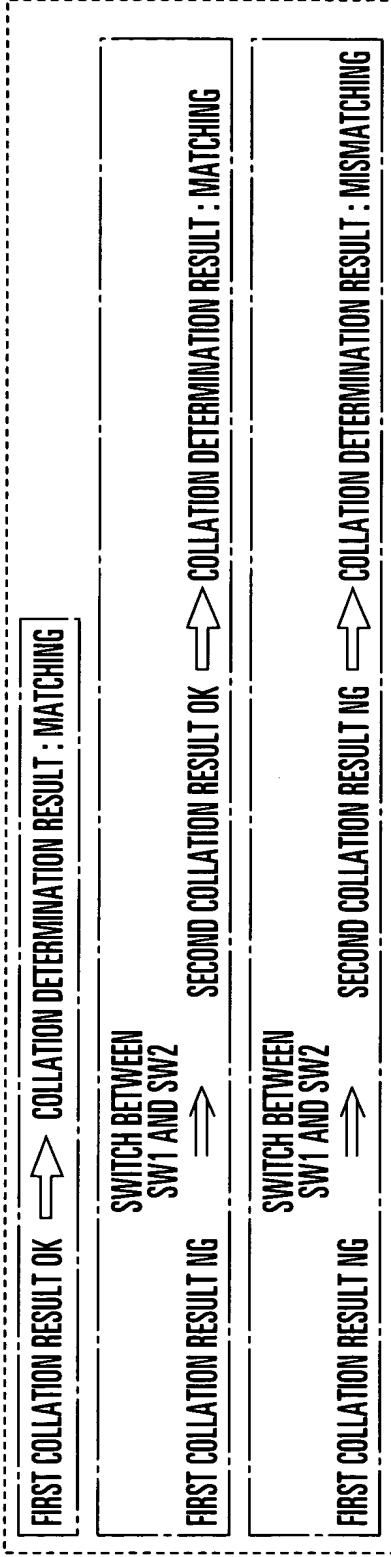
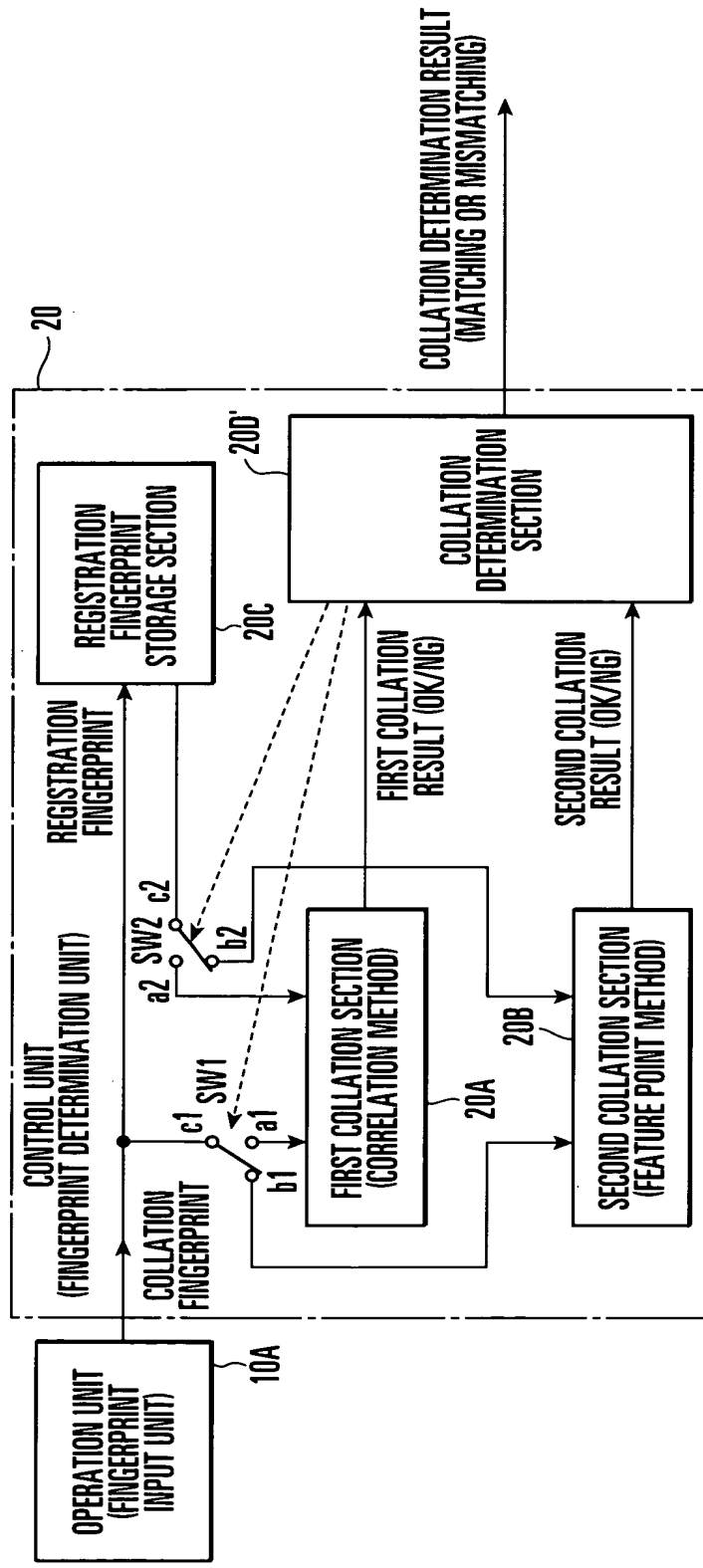


FIG. 13

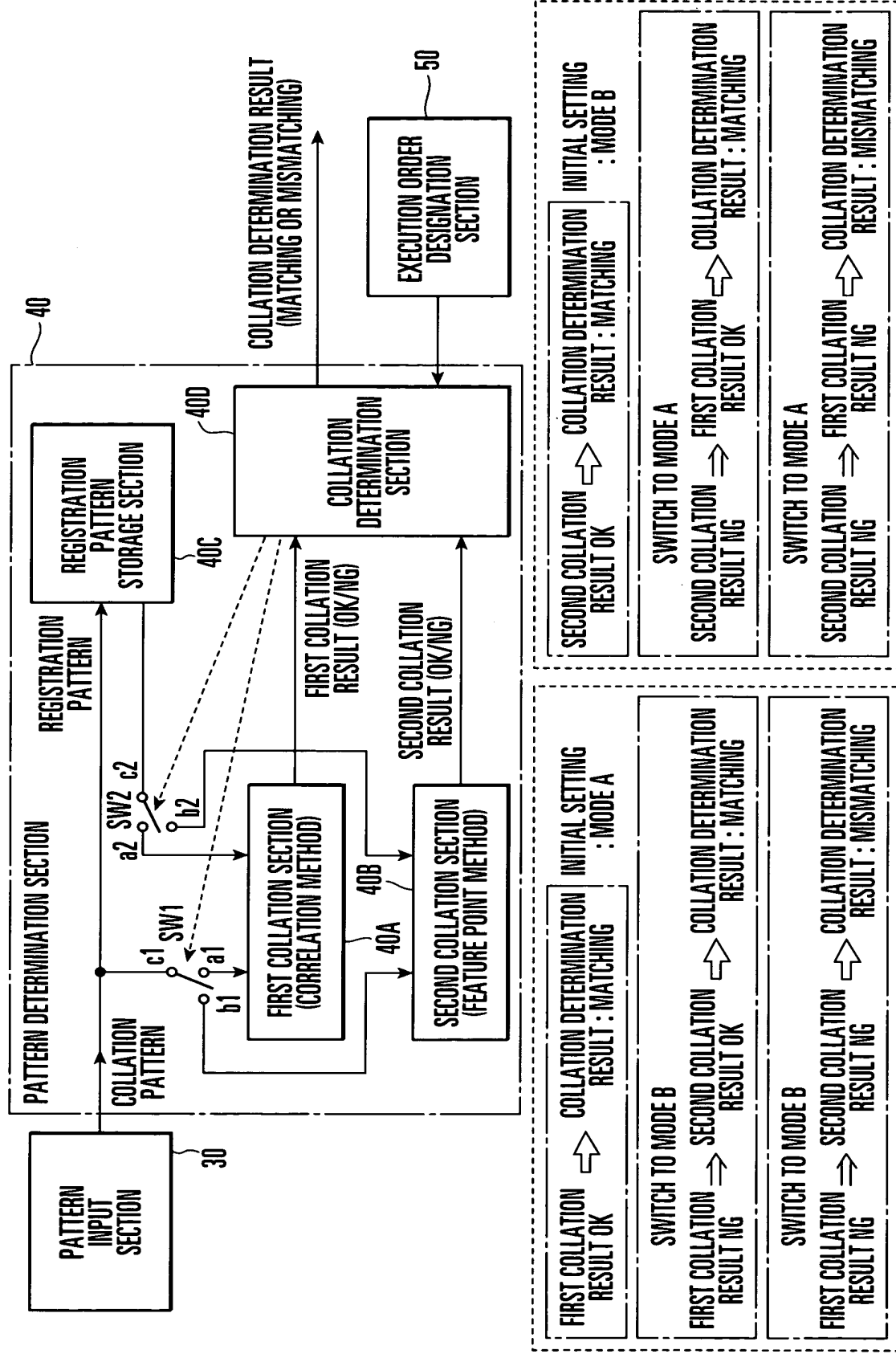


FIG. 14

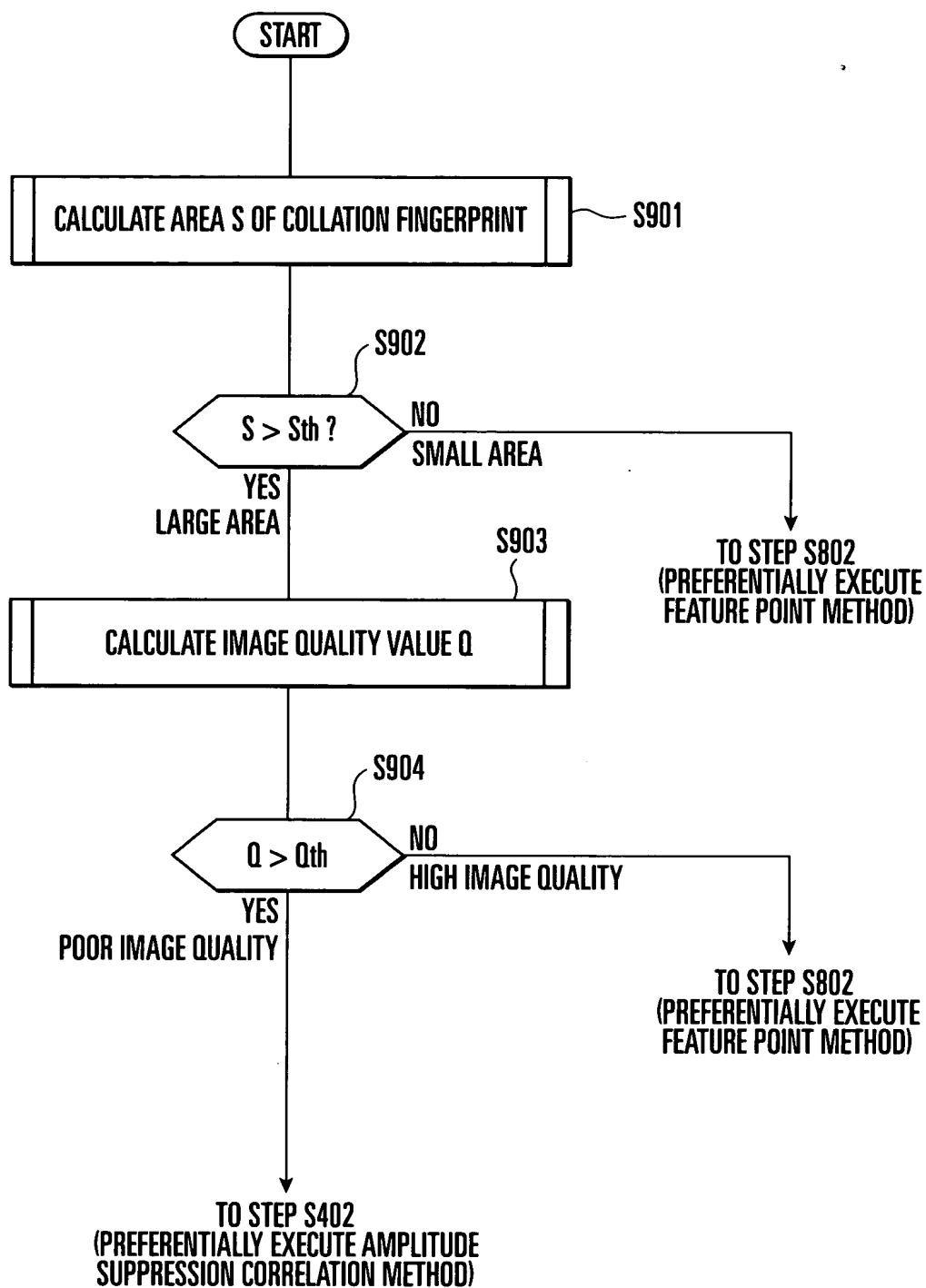


FIG. 15

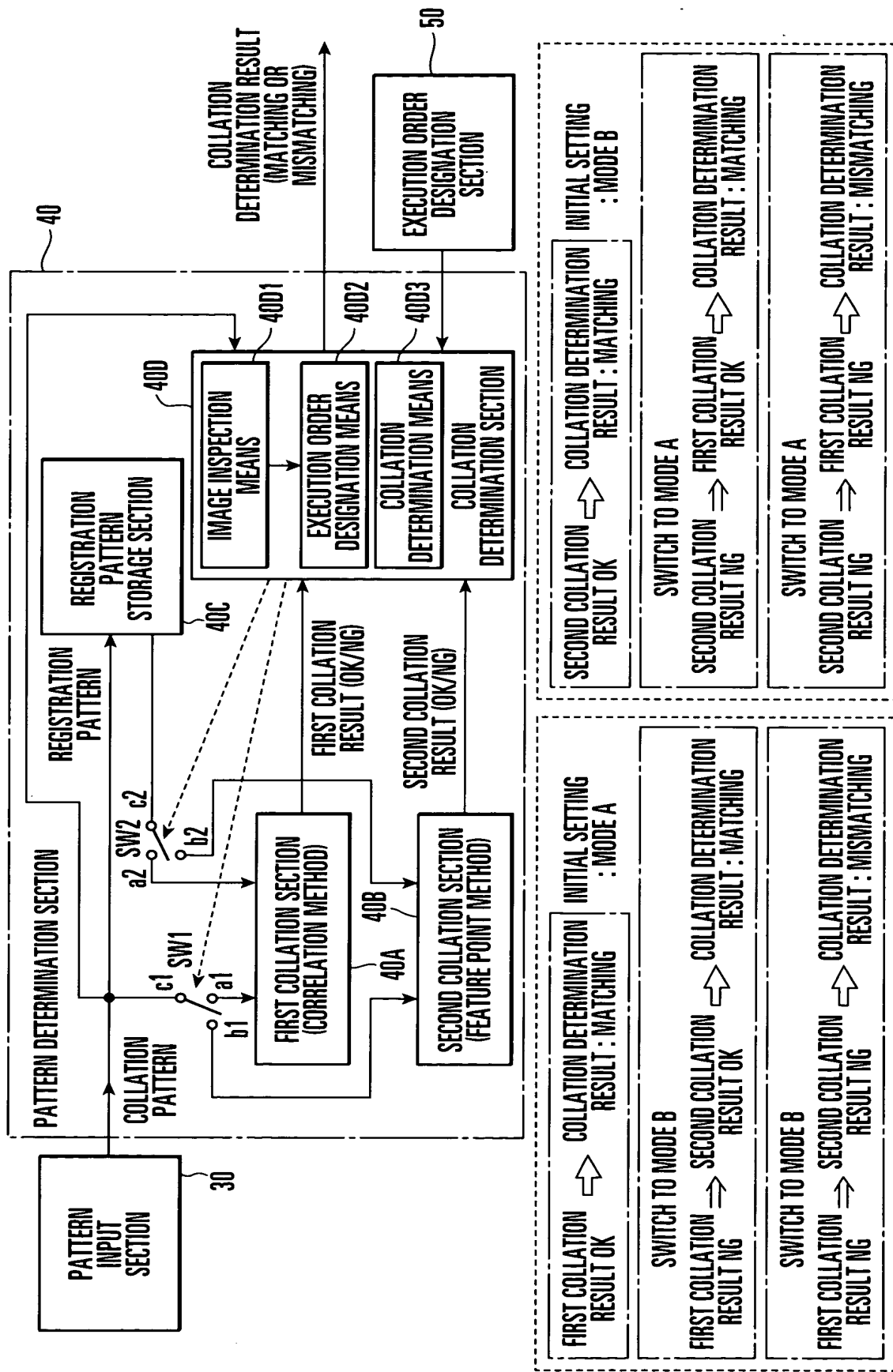


FIG. 16

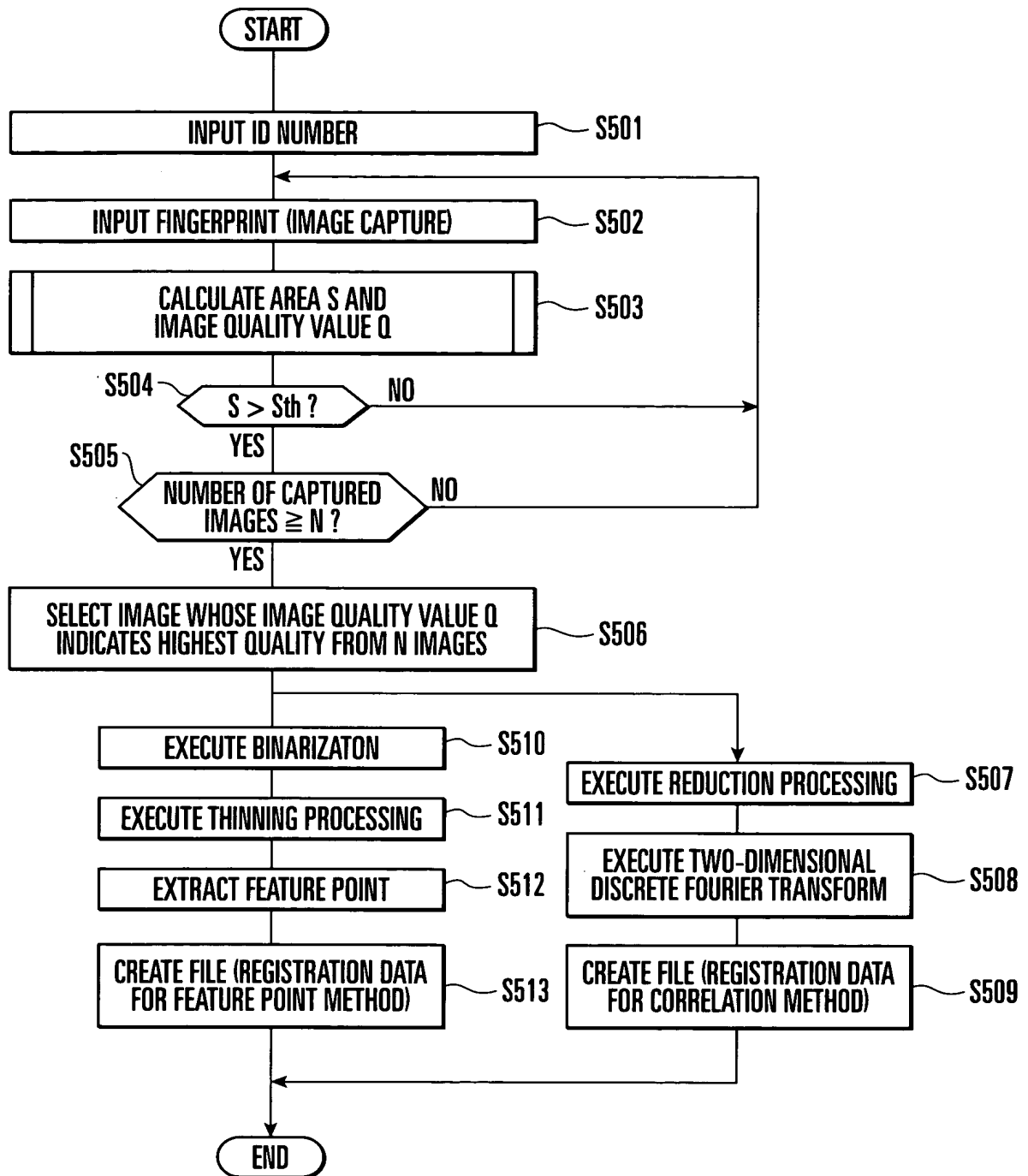


FIG. 17

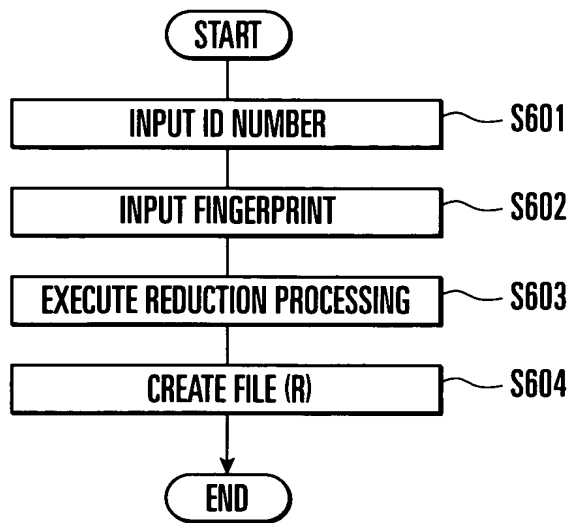


FIG. 18

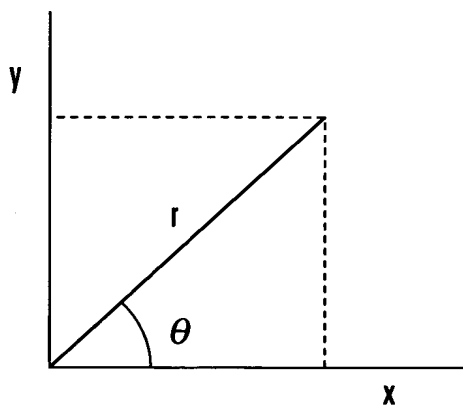


FIG. 19A

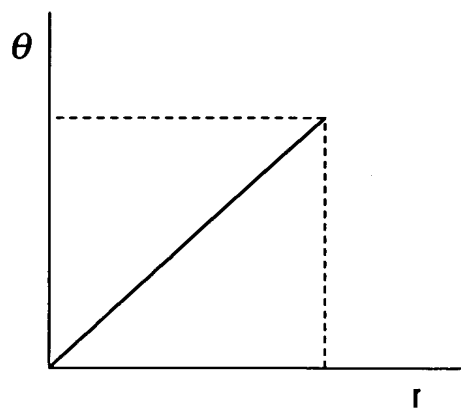


FIG. 19B

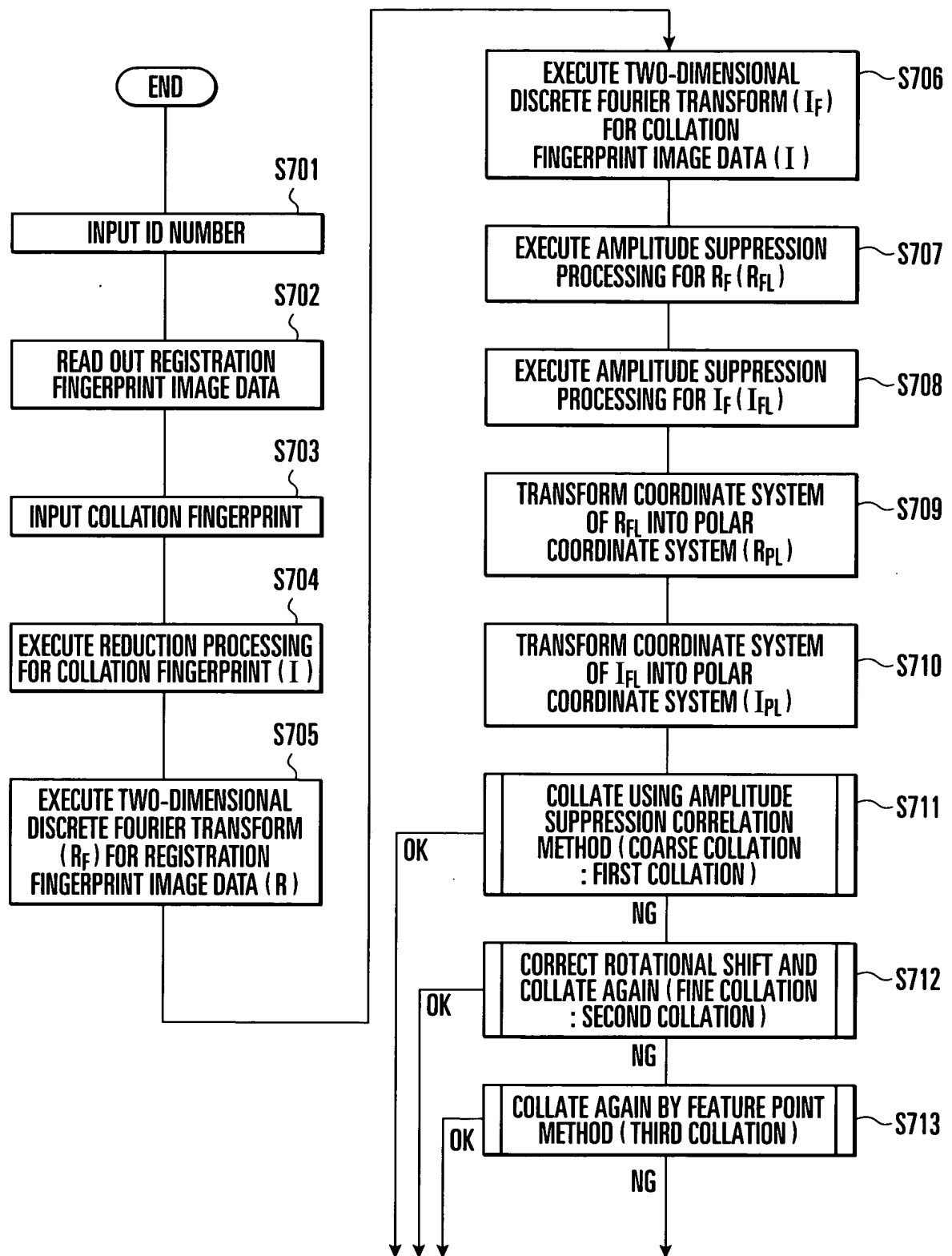
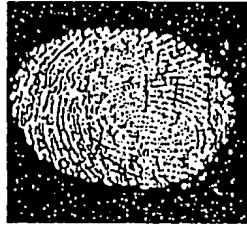


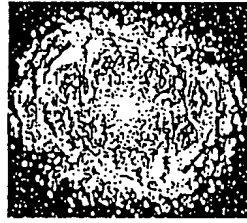
FIG. 20

COARSE COLLATION

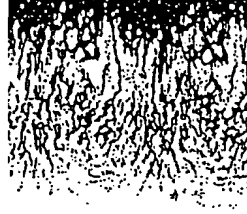
FIG.21A FIG.21C FIG.21E



R



R_F



R_{PL}

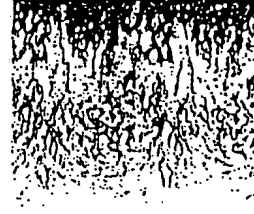
FIG.21B FIG.21D FIG.21F



I

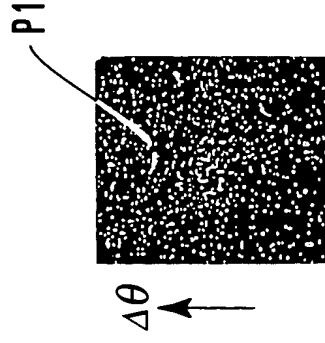


I_F



I_{PL}

FIG.21G



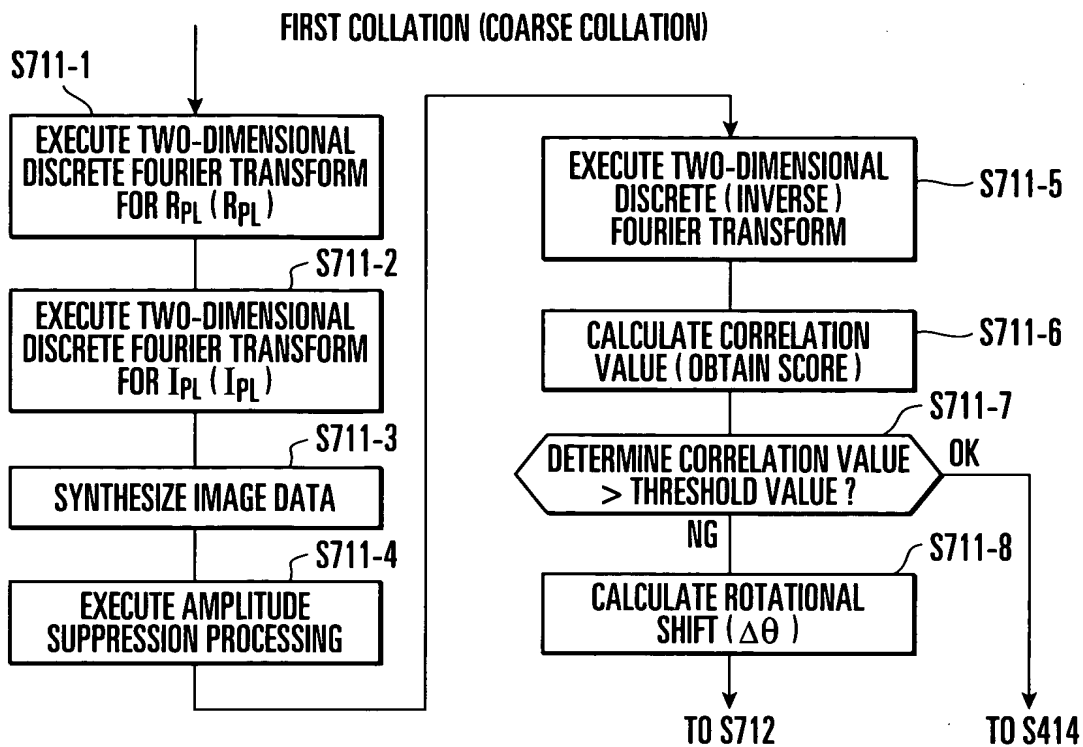


FIG. 22

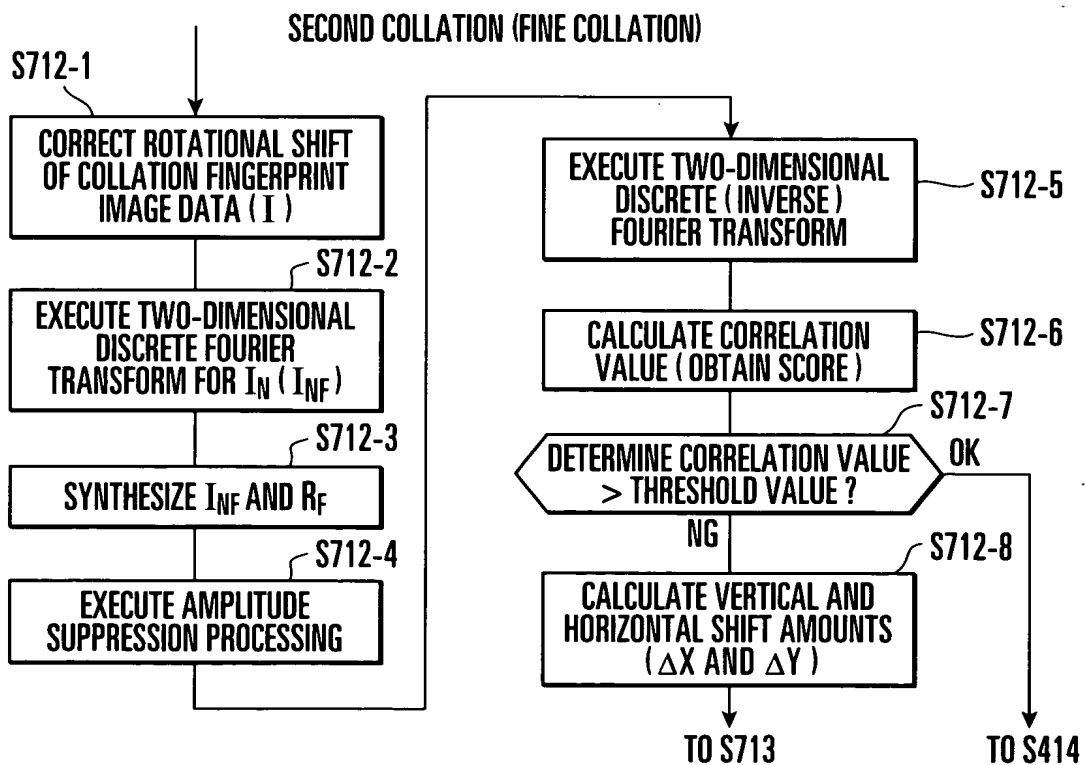


FIG. 23

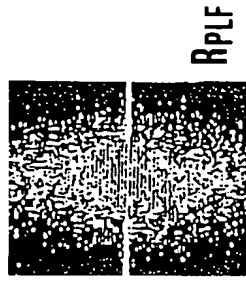
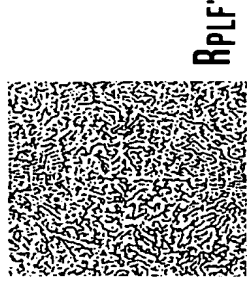


FIG. 24C

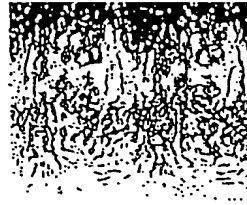
RPLF

FIG. 24A

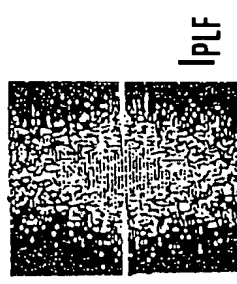


RPLF

FIG. 24D



RPL

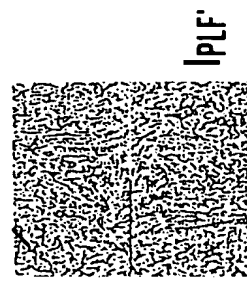


lPLF

FIG. 24E



lPL



lPLF

FIG. 24F

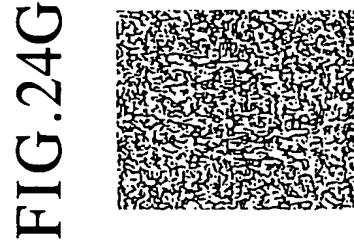


FIG. 24G

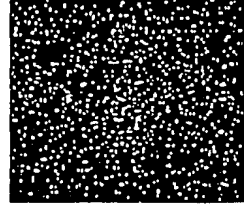


FIG. 24H

FINE COLLATION

FIG. 25A

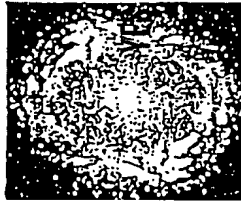
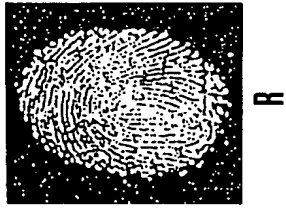


FIG. 25C

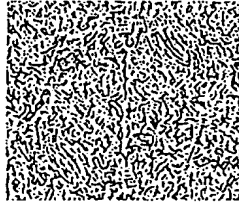


FIG. 25D

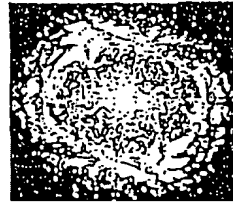


FIG. 25E

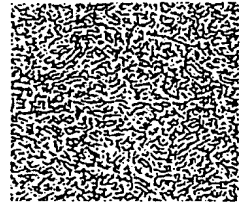


FIG. 25F

FIG. 25B

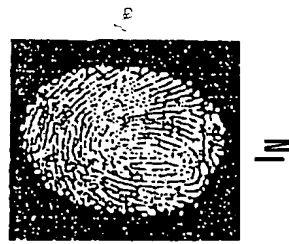
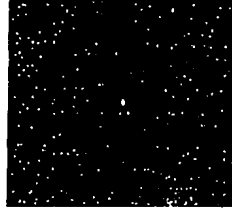


FIG. 25G



FIG. 25H



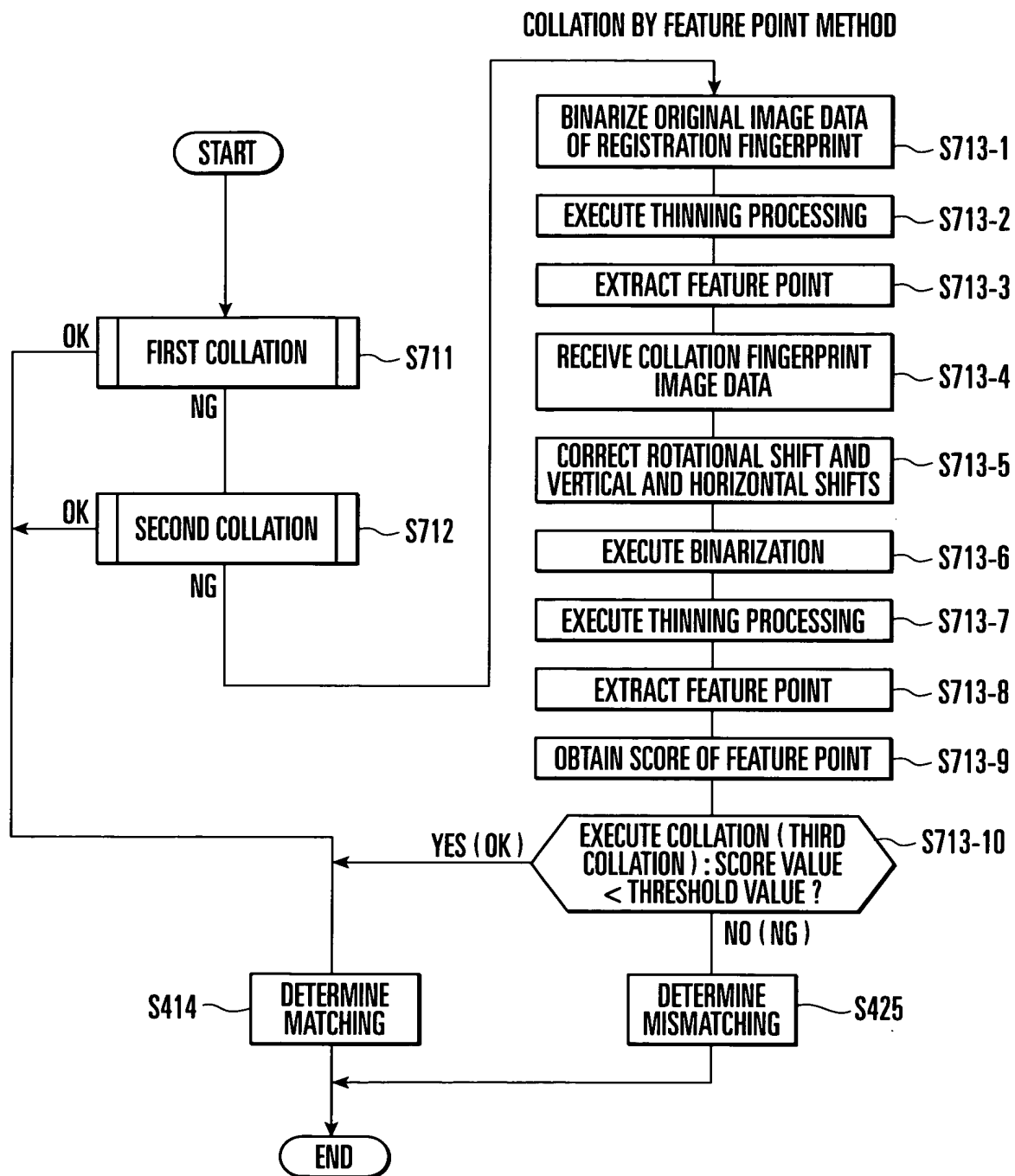


FIG. 26

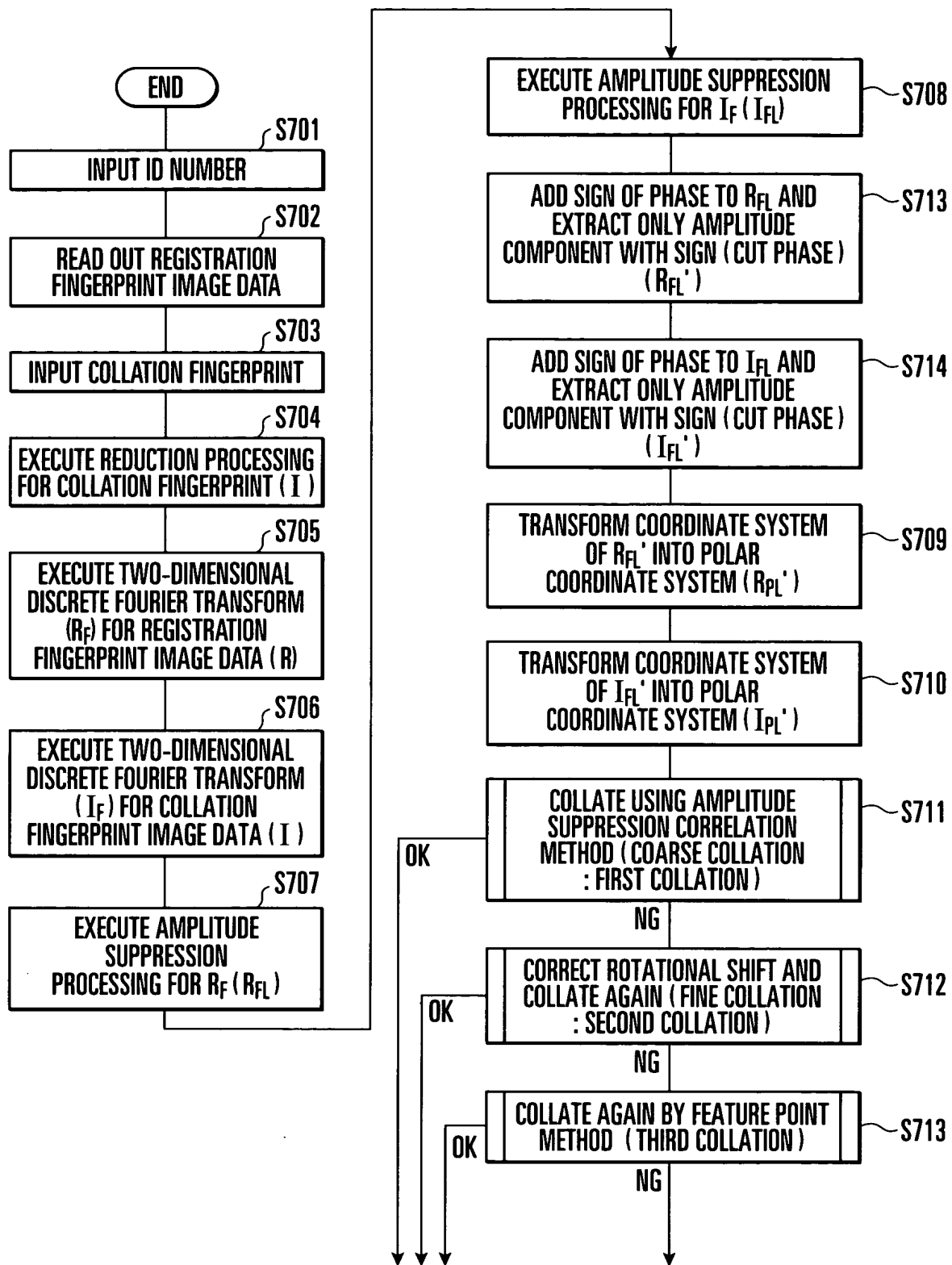


FIG. 27

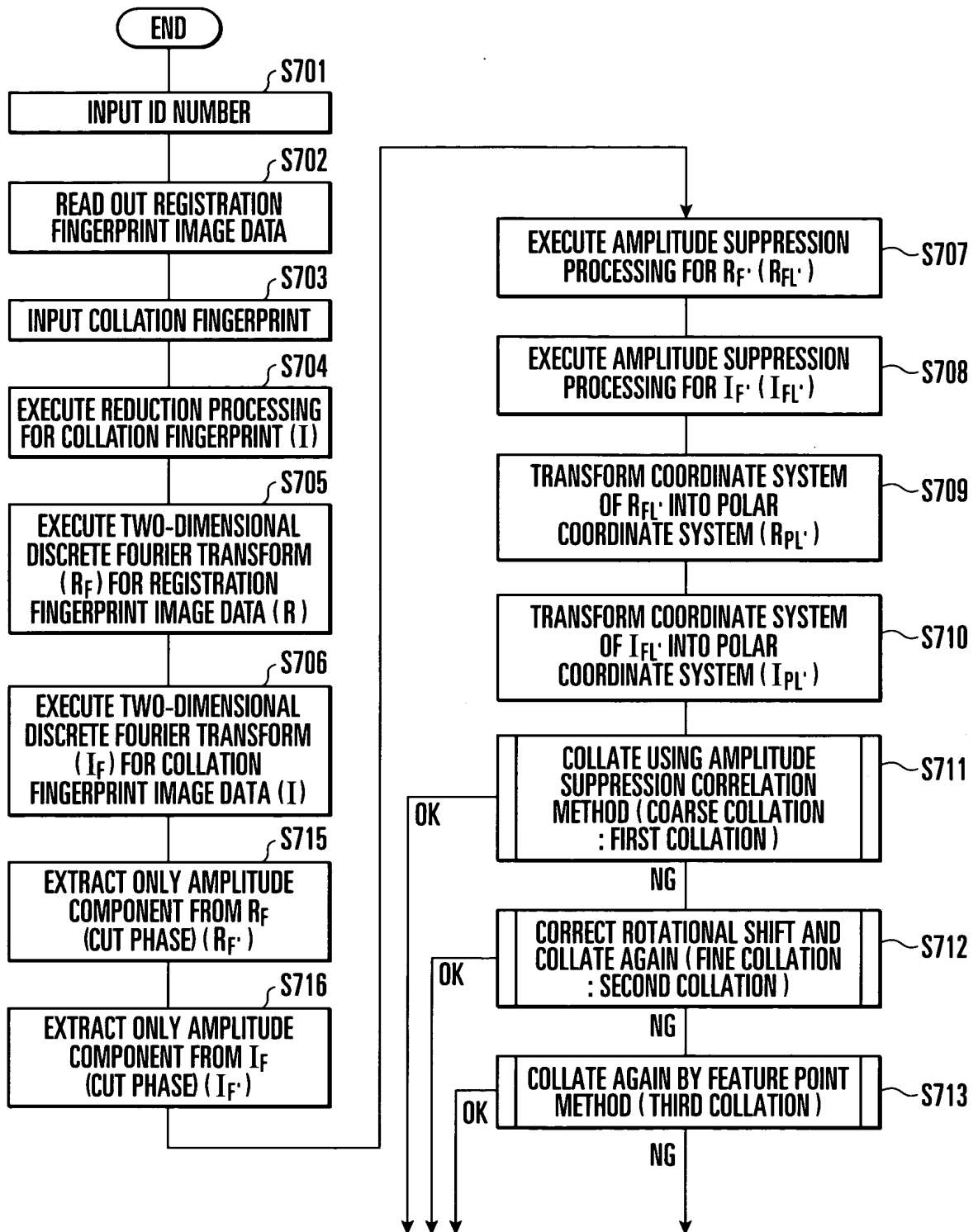
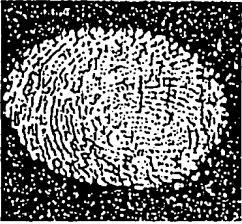


FIG. 28

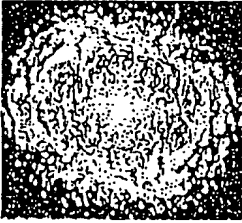
COARSE COLLATION

FIG. 29A



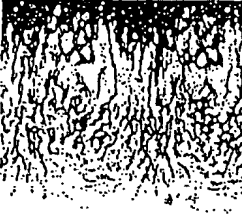
R

FIG. 29C



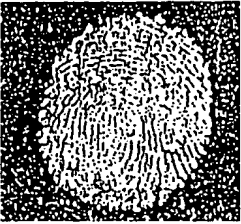
RF

FIG. 29E



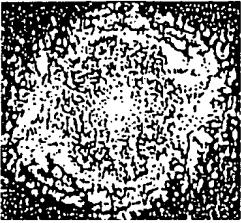
RPL'

FIG. 29B



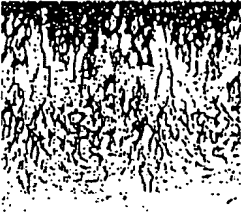
I

FIG. 29D



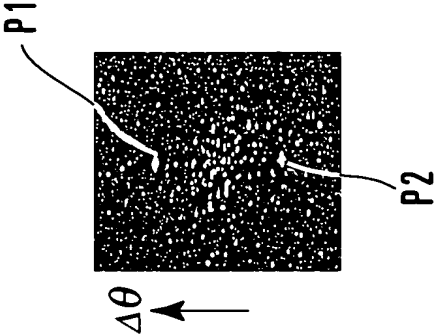
IF

FIG. 29F



IPL'

FIG. 29G



$\Delta\theta$

IMAGES THAT EXHIBIT DISTORTED PATTERNS DUE TO CHAPPY SKIN

FIG.30A

REGISTRATION



FIG.30B

COLLATION

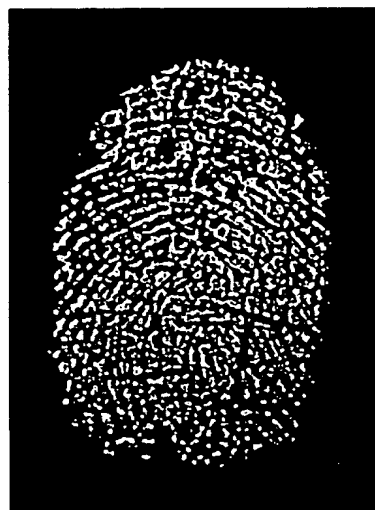


FIG.31A

REGISTRATION

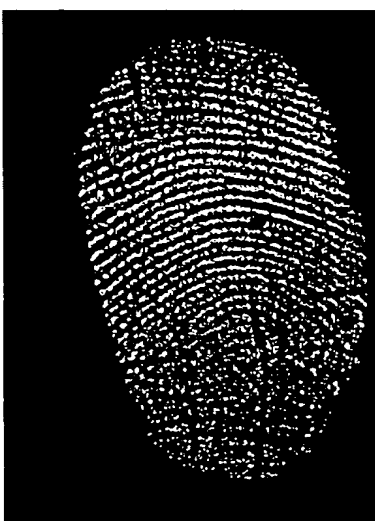
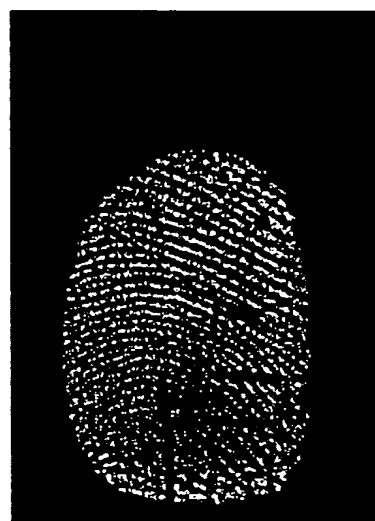


FIG.31B

COLLATION



FINGERTIP